

Hexcel® HexPly® F593 Epoxy Resin, F3T584 Carbon Fabric

Category : Polymer , Thermoset , Carbon Fiber/Thermoset Composite , Epoxy , Epoxy/Carbon Fiber Composite

Material Notes:

Hexcel designation: F3T584-42"-F593; Fiber: Toray T-300/3k Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F593-Epoxy-Resin-F3T584-Carbon-Fabric.php

Physical Properties	Metric	English	Comments
Volatiles	1.0 - 6.0 %	1.0 - 6.0 %	Prepreg

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	508 MPa	73700 psi	Dry
	@Temperature -54.0 °C	@Temperature -65.2 °F	
	513 MPa	74400 psi	Wet
	@Temperature 71.0 °C	@Temperature 160 °F	
	563 MPa	81700 psi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	581 MPa	84300 psi	Dry
	@Temperature 71.0 °C	@Temperature 160 °F	
Tensile Modulus	52.4 GPa	7600 ksi	Wet
	@Temperature 71.0 °C	@Temperature 160 °F	
	53.8 GPa	7800 ksi	Dry
	@Temperature 71.0 °C	@Temperature 160 °F	
	55.9 GPa	8110 ksi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	57.9 GPa	8400 ksi	Dry
	@Temperature -54.0 °C	@Temperature -65.2 °F	
Compressive Yield Strength	357 MPa	51800 psi	Wet
	@Temperature 71.0 °C	@Temperature 160 °F	
	398 MPa	57700 psi	Dry
	@Temperature 71.0 °C	@Temperature 160 °F	
	516 MPa	74800 psi	Dry

Mechanical Properties	@Temperature 24.0 °C Metric	@Temperature 75.2 °F English	Comments
	641 MPa	93000 psi	Dry
	@Temperature -59.0 °C	@Temperature -74.2 °F	
Compressive Modulus	46.9 GPa	6800 ksi	Dry
	@Temperature 71.0 °C	@Temperature 160 °F	
	51.7 GPa	7500 ksi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	57.9 GPa	8400 ksi	Dry
	@Temperature -59.0 °C	@Temperature -74.2 °F	

Descriptive Properties	Value	Comments
Cured Thickness per Ply (cm)	0.039-0.046	Laminate
Dry Resin Content (%)	38-46	Prepreg
Fiber Volume (%)	45-53	Laminate
Flow (%)	<4.5	

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